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Inventor: Zuoshang XU et al.

Title: ALLELE-SPECIFIC RNA INTERFERENCE
REPLACEMENT SHEET

Sheet 1 of 8

mutant siRNA p9

5'-UGGAGACUUGGCGCAAUGUGdTdT-3' Sense, (Seq ID No.:1)
3'-dTdTACCUCUGAACGCGUUACAC-5' Antisense, (Seq ID No.:2)

p10

5'-GGAGACUUGGCGCAAUGUGAdTdT-3' Sense, (Seq ID No.:3)
3'-dTdTCCUCUGAACGCGUUACACU-5' Antisense, (Seq ID No.:4)

p11

5'-GAGACUUGGCGCAAUGUGACdTdT-3' Sense, (Seq ID No.:5)
3'-dTdTTCUCUGAACGCGUUACACUG-5' Antisense, (Seq ID No.:6)

sod1 wild type 5'-...GAGAGGCAUGUUGGAGACUUGGCGCAAUGUGACUGCUGACAAAGAUGGU...-3' (Seq ID No.:7)

sod1 mutant 5'-...GAGAGGCAUGUUGGAGACUUGGCGCAAUGUGACUGCUGACAAAGAUGGU...-3' (Seq ID No.:8)

wild-type siRNA p11

5'-GAGACUUGGCGCAAUGUGACdTdT-3' Sense, (Seq ID No.: 9)
3'-dTdTTCUCUGAACGCGUUACACUG-5' Antisense, (Seq ID No.:10)

p10

5'-GGAGACUUGGCGCAAUGUGAdTdT-3' Sense, (Seq ID No.:11)
3'-dTdTCCUCUGAACGCGUUACACU-5' Antisense, (Seq ID No.:12)

p9

5'-UGGAGACUUGGCGCAAUGUGdTdT-3' Sense, (Seq ID No.:13)
3'-dTdTACCUCUGAACGCGUUACAC-5' Antisense, (Seq ID No.:14)

Fig. 1A

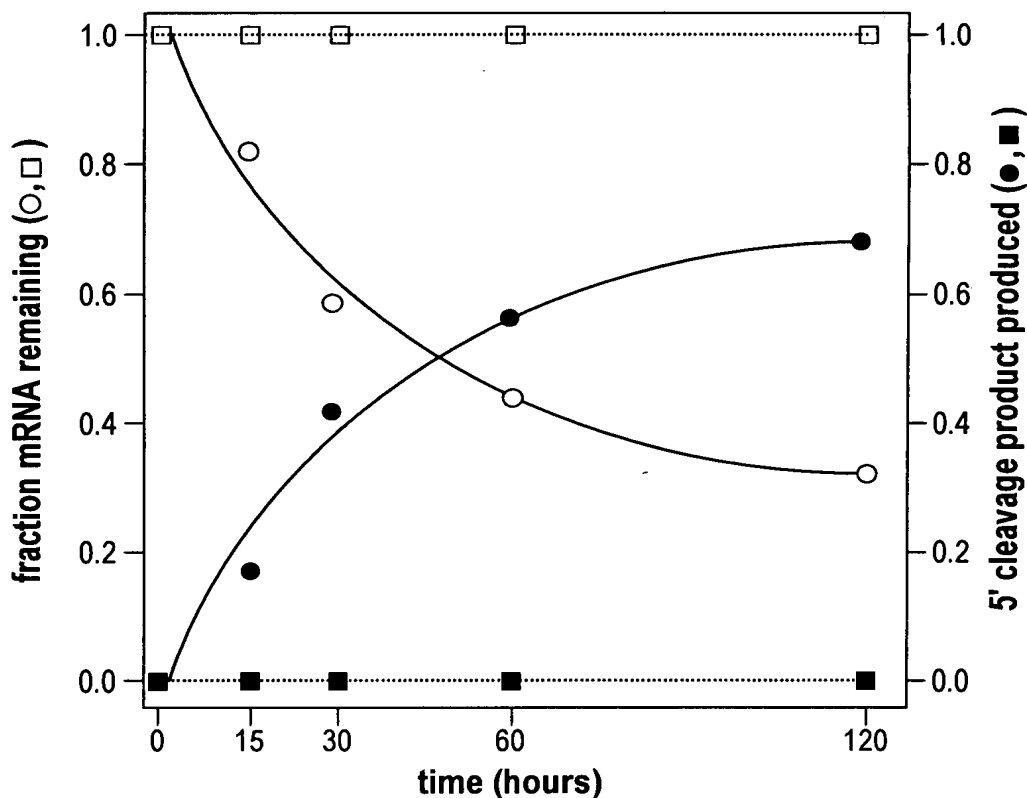


Fig. 1B

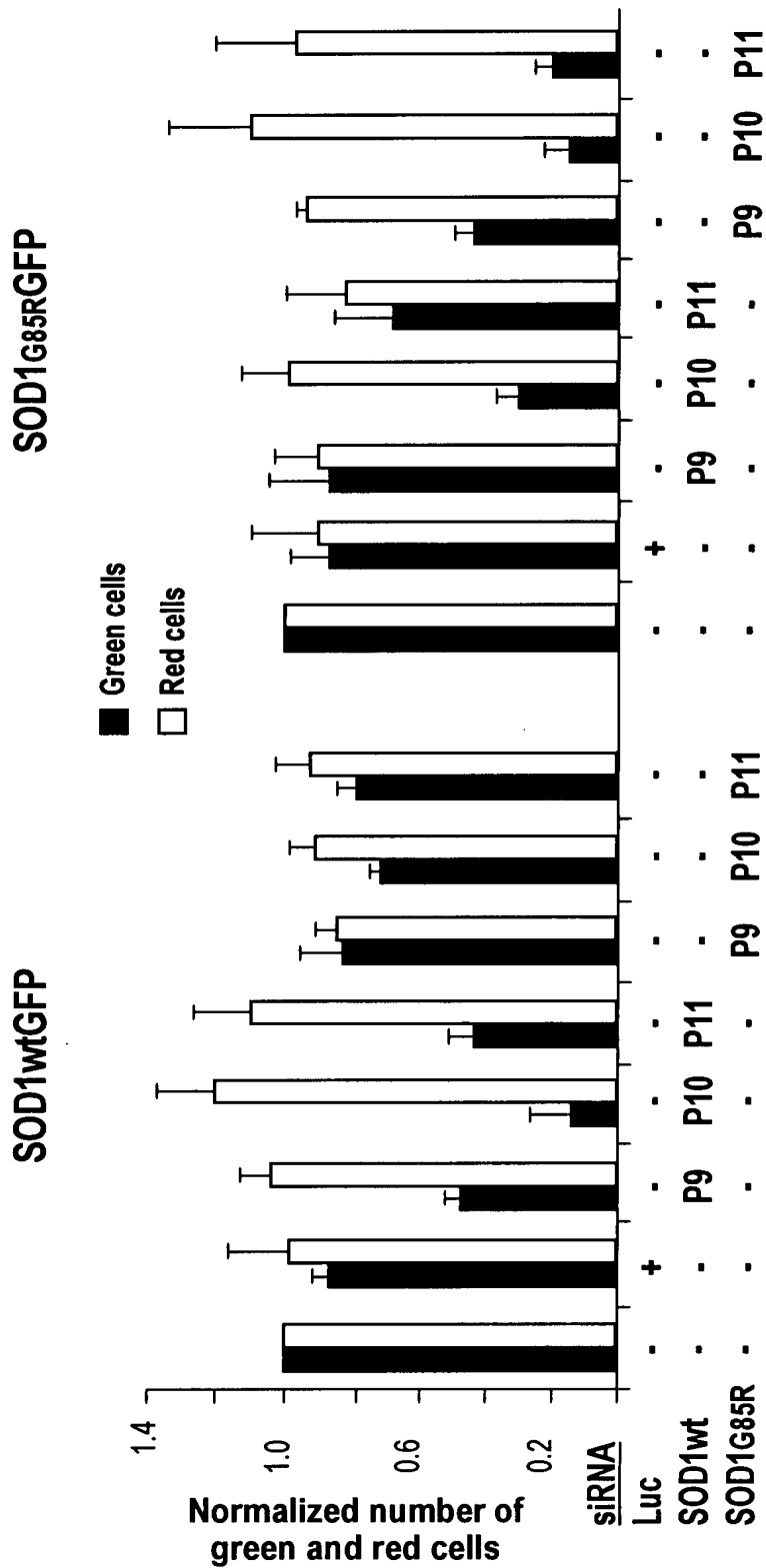


Fig. 2

Wild type SOD1

5'- ...ACTGCTGACAAAGATGGTGTGGCCGATGTGTCTAT...-3'

G93AshRNA GACAAAGAUGCUGUGGCCGAU^{AA}G
 UUUUCUGUUUCUACGACACCGGCUA^{UU}C

Fig. 3A

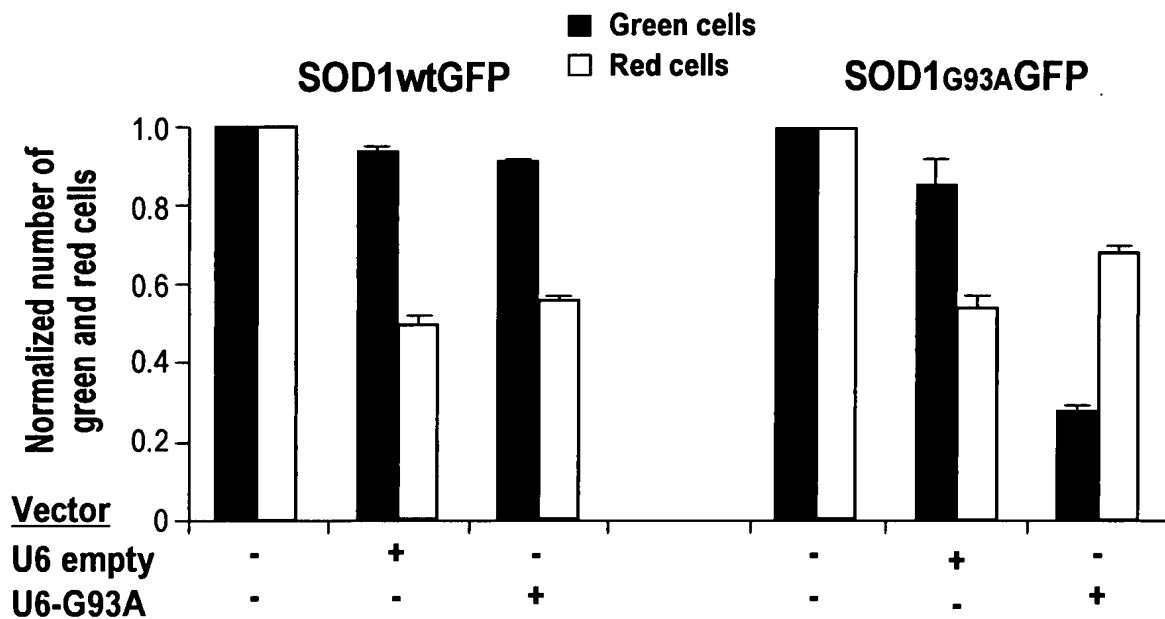


Fig. 3B

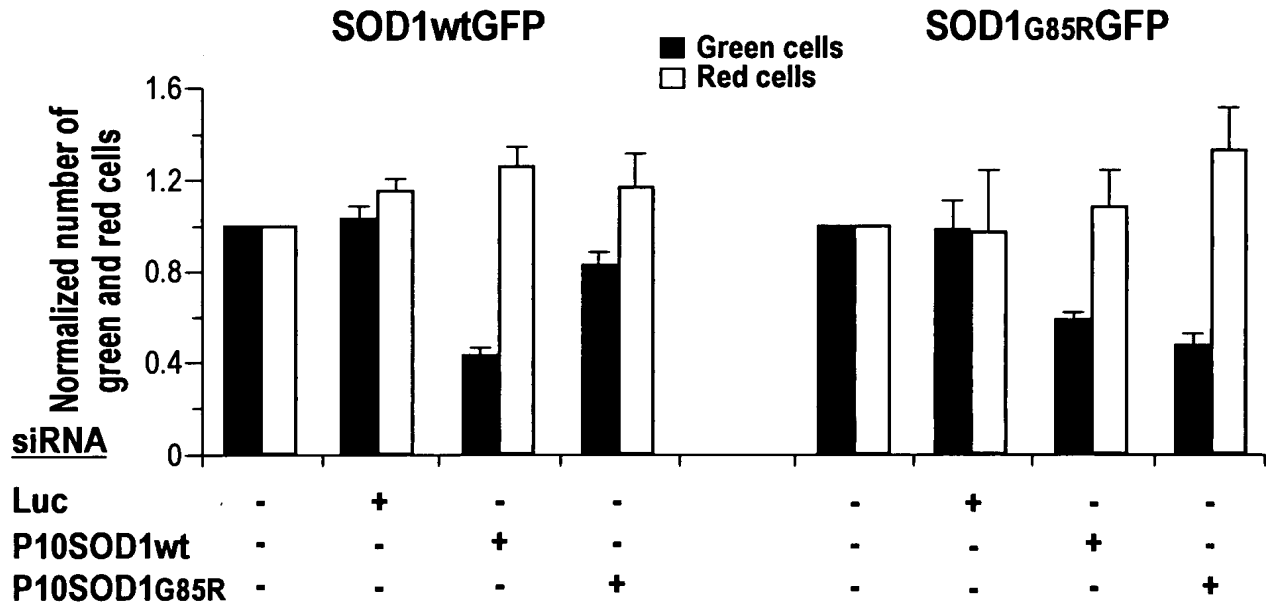


Fig. 4A

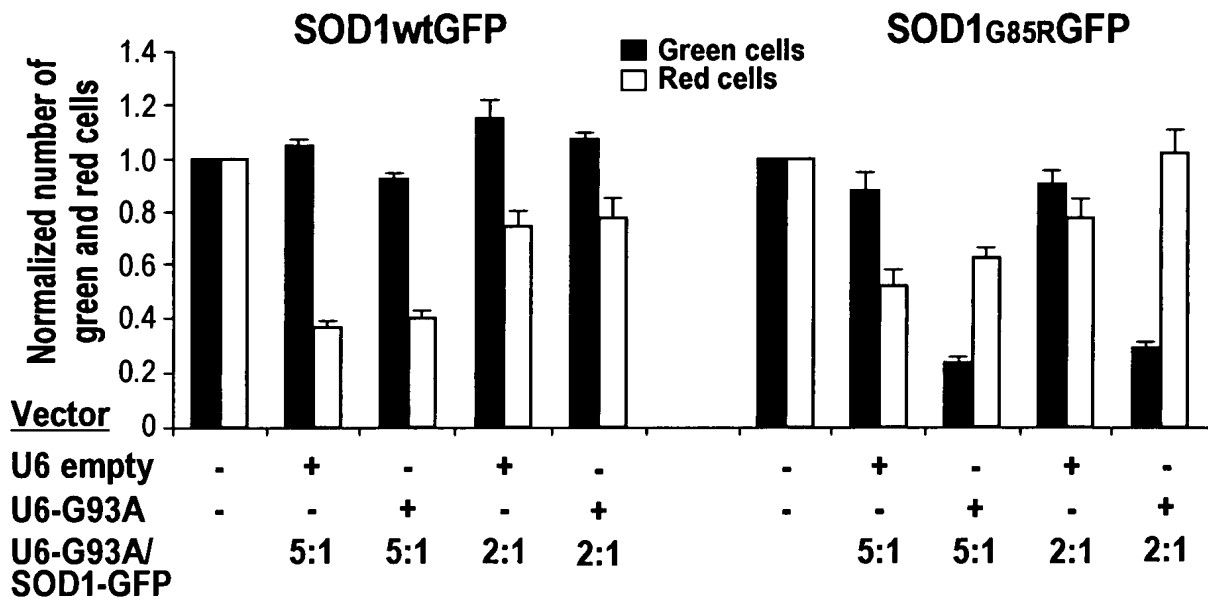
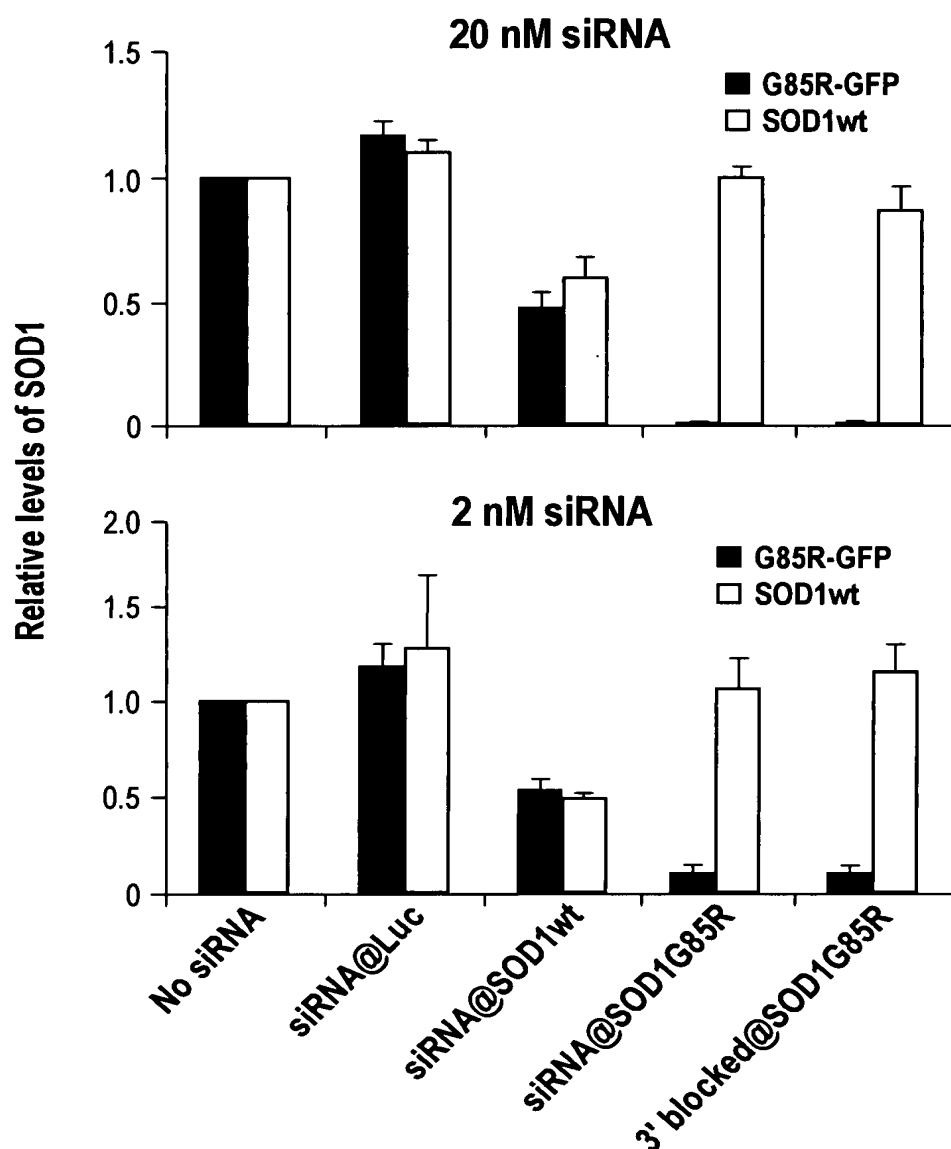
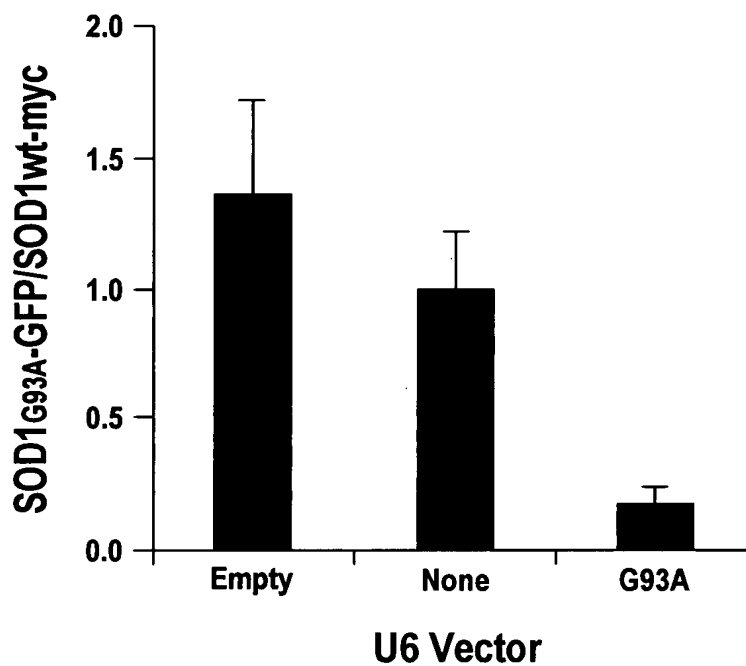


Fig. 4B

*Fig. 5*

*Fig. 6*

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Fig. 7

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Fig. 8

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Fig. 9